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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. | |
|--|---------------|----------------------|-------------------------|------------------|--|
| 09/658,694 | 09/08/2000 | Haining Wang | - | 3641 | |
| 75 | 90 06/17/2004 | | EXAMI | NER | |
| Patent Department | | | DUONG, | DUONG, DUC T | |
| Mitsubishi Electric Information Technology | | | | | |
| Center America Inc | | | ART UNIT | PAPER NUMBER | |
| 201 Broadway Cambridge, MA 02139 | | | 2663 | U | |
| | | | DATE MAILED: 06/17/2004 | 1 | |

Please find below and/or attached an Office communication concerning this application or proceeding.

| | Application No. | Applicant(s) |
|--|--|---|
| , | 09/658,694 | WANG ET AL. |
| Office Action Summary | Examiner | Art Unit |
| | Duc T. Duong | 2663 |
| The MAILING DATE of this communication app Period for Reply | ears on the cover sheet with the o | correspondence address |
| A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period we Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). | 36(a). In no event, however, may a reply be tir within the statutory minimum of thirty (30) day rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE | nely filed /s will be considered timely. In the mailing date of this communication. ED (35 U.S.C. § 133). |
| Status | | |
| Responsive to communication(s) filed on <u>08 Seconds</u> This action is FINAL . 2b) ☑ This Since this application is in condition for allowant closed in accordance with the practice under Expression is the practice under Expression in the practice under Expression is the practice under Expression in the practice under Expression in the practice under Expression is the practice under Expression in the practice under Expression is the practice under Expression is the practice under Expression in the practice under Expression is the practice und | action is non-final. nce except for formal matters, pro | |
| Disposition of Claims | | |
| 4) ⊠ Claim(s) <u>1-13</u> is/are pending in the application. 4a) Of the above claim(s) is/are withdraw 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) <u>1,3 and 13</u> is/are rejected. 7) ⊠ Claim(s) <u>2 and 4-12</u> is/are objected to. 8) □ Claim(s) are subject to restriction and/or | | |
| Application Papers | | |
| 9) The specification is objected to by the Examiner 10) The drawing(s) filed on is/are: a) access applicant may not request that any objection to the consequence of Replacement drawing sheet(s) including the correction is objected to by the Examiner. | epted or b) objected to by the drawing(s) be held in abeyance. Se on is required if the drawing(s) is ob | e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d). |
| Priority under 35 U.S.C. § 119 | | |
| 12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priority application from the International Bureau * See the attached detailed Office action for a list of | s have been received. s have been received in Applicati ity documents have been receive (PCT Rule 17.2(a)). | ion No ed in this National Stage |
| Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) | | |
| Paper No(s)/Mail Date <u>2&3</u> . | 6) | |

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DETAILED ACTION

Drawings

1. The drawings are objected to because the elements in Fig. 1 and 3 (i.e. ER, CR, EF, AF, BE) need label. Corrected drawing sheets are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Claim Objections

2. Claim 4 is objected to because of the following informalities: The word "an" on line 1 should be removed. Appropriate correction is required.

Claim Rejections - 35 USC § 102

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3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

4. Claims 1 is rejected under 35 U.S.C. 102(e) as being anticipated by Su et al (U.S. Patent 6,625,161 B1).

Regarding to claim 1, Su discloses a method for scheduling packets in a router 17 of a packet-switched network having a plurality of service classes (Fig. 1 col. 3 lines 57-60, the traffic aggregate read on the service classes), the router including one queue 117 for each service class (Fig. 2 col. 4 lines 36-39), each queue storing packets to be transmitted according to the associated service class (Fig.2 col. 4 lines 39-42), comprising measuring an average queue length for a particular queues (Fig. 3 col. 5 lines 17-22) and allocating bandwidth (reassign communication channels 115a-c) to each of the plurality of service classes according to the average queue length (Fig. 3 col. 5 lines 29-34).

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Claim Rejections - 35 USC § 103

- 5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 6. Claims 3 and 13 rejected under 35 U.S.C. 103(a) as being unpatentable over Su in view of Silberschatz et al (U.S. Patent 6,556,578 B1).

Regarding to claims 3 and 13, Su discloses all the limitation with respect to claim 1, except for the average is an exponential weighted moving average. However, Silberschatz discloses a method for managing a buffer pool containing a plurality of queues, wherein the measure of an average queue length is determined using an exponential weighted moving average (col. 2 lines 66-67). Thus, it would have been obvious to a person of ordinary skill in the art to employ an exponential weighted moving average as taught by Silberschatz in Su's system to allows the most recently collected data have more influence on the average than older ones.

Allowable Subject Matter

7. Claims 2 and 4-12 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

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Conclusion

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Duc T. Duong whose telephone number is 703-605-5146. The examiner can normally be reached on M-Th (9:00 AM-6:00 PM).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chau T. Nguyen can be reached on 703-308-5340. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

DD DD

CHAU NGUYEN
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2600

Chave To player